

PATENT APPLN. NO. 10/775,137
RESPONSE UNDER 37 C.F.R. §1.111

**PATENT
NON-FINAL**

IN THE CLAIMS:

1. (currently amended) A rubber-reinforced styrene transparent resin composition comprising a styrene copolymer reinforced with a rubber polymer, wherein (1) the monomer composition of an acetone soluble resin component contained in the resin composition comprises 5 to 70% by weight of aromatic vinyl monomer (a1), 30 to 95% by weight of unsaturated carboxylic acid alkyl ester monomer (a2), 0 to 50% by weight of vinyl cyanide monomer (a3), and 0 to 50% by weight of another monomer copolymerizable with these monomers, and (2) the acid value of the acetone soluble resin component is 0.01 to 1 mgKOH/g, and (3) in the composition distribution of weight ratios (ϕ_{ST}/ϕ_{MA}) of the aromatic vinyl monomer (a1) and the unsaturated carboxylic acid alkyl ester monomer (a2) which constitute the acetone soluble resin component, the (ϕ_{ST}/ϕ_{MA}) of 80% by weight or more of the acetone soluble resin component lies in the range of 0.75 to 1.2 times as large as the average weight ratio (ϕ_{ST}/ϕ_{MA}); 10 to 95 parts by weight, per 100 parts by weight of the resin composition, being a copolymer (A) produced by continuous bulk polymerization or continuous solution polymerization of a vinyl monomer mixture (a) containing 5 to 70% by weight of aromatic vinyl monomer (a1), 30 to 95% by weight of unsaturated carboxylic acid alkyl ester monomer

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(a2), 0 to 50% by weight of vinyl cyanide monomer (a3), and 0 to 50% by weight of another monomer copolymerizable with these monomers, and having an acid value of less than 0.01 mgKOH.

2. (currently amended) A rubber-reinforced styrene transparent resin composition according to Claim 1, comprising 10 to 95 parts by weight of the copolymer (A)—~~obtained by copolymerizing a vinyl monomer mixture (a)~~, and 90 to 5 parts by weight of graft copolymer (B) obtained by graft-polymerizing a vinyl monomer mixture (c) in the presence of a rubber polymer (b).

3. (currently amended) A rubber-reinforced styrene transparent resin composition according to Claim 2, wherein ~~each of the vinyl monomer mixture (a) and the vinyl monomer mixture (c)~~ has an acid value of less than 0.01 mgKOH.

4. (original) A rubber-reinforced styrene transparent resin composition according to Claim 1, wherein the total light transmittance is 50% or more.

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5. (original) A rubber-reinforced styrene transparent resin composition according to Claim 2, wherein the total light transmittance is 50% or more.

6. (original) A rubber-reinforced styrene transparent resin composition according to Claim 3, wherein the total light transmittance is 50% or more.

7-9. (canceled)

10. (original) A rubber-reinforced styrene transparent resin composition according to Claim 1, wherein the difference in refractive index between the rubber polymer and the acetone soluble resin component is 0.03 or less.

11. (original) A rubber-reinforced styrene transparent resin composition according to Claim 2, wherein the difference in refractive index between the rubber polymer and the acetone soluble resin component is 0.03 or less.

12. (original) A rubber-reinforced styrene transparent resin composition according to Claim 3, wherein the difference in

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refractive index between the rubber polymer and the acetone soluble resin component is 0.03 or less.

13. (canceled)

14. (currently amended) A rubber-reinforced styrene transparent resin composition according to Claim 2, wherein ~~each of the vinyl monomer mixtures (a) and~~ mixture (c) is a monomer mixture comprising 5 to 70% by weight of aromatic vinyl monomer (a1), 30 to 95% by weight of unsaturated carboxylic acid alkyl ester monomer (a2), 0 to 50% by weight of vinyl cyanide monomer (a3), and 0 to 50% by weight of another monomer copolymerizable with these monomers, and ~~containing substantially no unsaturated carboxylic acid monomer (except the unsaturated carboxylic acid alkyl ester monomer (a2))~~ (a5) has an acid value of less than 0.01 mgKOH.

15. (currently amended) A rubber-reinforced styrene transparent resin composition according to Claim 3, wherein ~~each of the vinyl monomer mixtures (a) and~~ mixture (c) is a monomer mixture comprising 5 to 70% by weight of aromatic vinyl monomer (a1), 30 to 95% by weight of unsaturated carboxylic acid alkyl ester monomer (a2), 0 to 50% by weight of vinyl cyanide monomer (a3), and 0 to

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50% by weight of another monomer copolymerizable with these monomers, ~~and containing substantially no unsaturated carboxylic acid monomer (except the unsaturated carboxylic acid alkyl ester monomer (a2)) (a5).~~

16. (canceled)

17. (original) A rubber-reinforced styrene transparent resin composition according to Claim 2, wherein each of the vinyl monomer mixtures (a) and (c) is a monomer mixture comprising 5 to 40% by weight of aromatic vinyl monomer (a1), 30 to 80% by weight of unsaturated carboxylic acid alkyl ester monomer (a2), 10 to 50% by weight of vinyl cyanide monomer (a3), and 0 to 40% by weight of another monomer copolymerizable with these monomers, and the ratio of a triple sequence of acrylonitrile monomer units present in the acetone soluble resin component of the resin composition is 10% by weight or less relative to the acetone soluble resin component.

18. (original) A rubber-reinforced styrene transparent resin composition according to Claim 3, wherein each of the vinyl monomer mixtures (a) and (c) is a monomer mixture comprising 5 to 40% by weight of aromatic vinyl monomer (a1), 30 to 80% by weight of

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unsaturated carboxylic acid alkyl ester monomer (a2), 10 to 50% by weight of vinyl cyanide monomer (a3), and 0 to 40% by weight of another monomer copolymerizable with these monomers, and the ratio of a triple sequence of acrylonitrile monomer units present in the acetone soluble resin component of the resin composition is 10% by weight or less relative to the acetone soluble resin component.

19. (canceled)

20. (original) A rubber-reinforced styrene transparent resin composition according to Claim 17, wherein the solubility parameter of the copolymer (A) is 10.5 to 12.5 (cal/ml)^{1/2}.

21. (original) A rubber-reinforced styrene transparent resin composition according to Claim 18, wherein the solubility parameter of the copolymer (A) is 10.5 to 12.5 (cal/ml)^{1/2}.

22-23. (canceled)